UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/086,771	02/28/2002	James D. Crumly	10015964-1	8952

7590 06/29/2006

HEWLETT-PACKARD COMPANY
Intellectual Property Administration
P.O. Box 272400
Fort Collins, CO 80527-2400

EXAMINER	
TESLOVICH, TAMARA	

ART UNIT	PAPER NUMBER
2137	

DATE MAILED: 06/29/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/086,771	CRUMLY ET AL.	
	Examiner	Art Unit	
	Tamara Teslovich	2137	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *10 April 2006*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-30* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-30* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on April 10, 2006 has been entered.

Claims 1-30 are pending and herein considered.

Response to Arguments

Applicant's arguments with respect to claims 1-30 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-30 are rejected under 35 U.S.C. 102(b) as being anticipated by US Patent No. 5,801,856 by Moghadam et al.

As per **claim 1**, Moghadam discloses a method of encrypting an image produced from physical information, comprising digitizing spatially-distributed physical information to create a digital image of the information; digitizing a physical tag associated with the physical information to create a digital tag, the digital tag being readable to identify a public key that is a public member of an asymmetric public-private pair of cryptographic keys; and reading the digital tag to identify the public key; and encrypting the digital image with the identified public key (col.1 line 57 thru col.2 line 10).

As per **claim 2**, Moghadam further discloses physically associating the physical tag with the physical information (col.3 lines 25-43).

As per **claim 3**, Moghadam further discloses including the physical information within a document, the document having a substrate that supports the physical information (col.3 lines 25-43).

As per **claim 4,** Moghadam further discloses including the physical tag on a label that is applied to the document that identifies the public key (col.3 lines 25-43).

As per **claim 5**, Moghadam further discloses including a barcode within the physical tag (col.3 lines 25-43).

As per **claim 6**, Moghadam further discloses wherein the barcode is formed as a glyph code, and wherein the glyph code contains public-key identifying information in a machine-readable graphic (col.3 lines 25-43).

As per **claim 7**, Moghadam further discloses wherein the physical tag carries the public key (col.3 lines 25-43).

As per **claim 8**, Moghadam further discloses wherein the physical tag identifies a location on a digital storage medium, and wherein the location includes the public key (col.3 lines 13-23).

As per **claim 9**, Moghadam further discloses sending the encrypted digital image from a sender to an address of a recipient, the address being identified by the physical tag (col.2 lines 43-49).

As per **claim 10**, Moghadam further discloses wherein sending transmitting a digital signature to the recipient, the digital signature being produced using a private key of the sender and relating to the digital image (col.1 lines 60-63; col.2 lines 46-49).

As per **claim 11**, Moghadam further discloses digitizing the physical tag is carried out during digitizing the physical information using a single digitizing mechanism (col.3 lines 49-57).

As per **claim 12**, Moghadam further discloses removing the digital tag from the digital image before encrypting (col.3 lines 49-57).

As per **claim 13**, Moghadam discloses a method of sending an encrypted image of a document, comprising disposing a physical tag on a document, the physical tag having a code that carries a public key; digitizing the document to create a digital image that includes a digital representation of the code; and reading the digital representation of the code to obtain the public key; encrypting the digital image with the obtained public key; and sending the encrypted image to a recipient that holds a private key, the private

key forming an asymmetric public-private pair of cryptographic keys with the public key (col.1 line 57 thru col.2 line 10).

As per **claim 14**, Moghadam further discloses wherein the code includes a barcode (col.3 lines 25-43).

As per **claim 15**, Moghadam further discloses wherein the physical tag carries an address, the address corresponding to the recipient (col.3 lines 25-43).

As per **claim 16**, Manico further discloses wherein the code is formed as a glyph code, and wherein the glyph code carries the public key in a machine-readable graphic (col.3 lines 25-43).

As per **claim 17**, Moghadam further discloses wherein the physical tag is included on an adhesive label, and wherein disposing includes applying the adhesive label to the document (col.3 lines 25-43).

As per **claim 18**, Moghadam discloses a device for encrypting an image produced from spatially-distributed physical information, the device comprising at least one digitizing mechanism adapted to digitize spatially-distributed physical information to create a digital image, and to digitize a physical tag associated with the physical information to create a digital tag, the digital tag being readable to identify a public key; and a processor operatively connected to the digitizing mechanism and adapted to receive the digital image and digital tag from the at least one digitizing mechanism, and to read the digital tag to identify the public key that is a public member of an asymmetric public-private pair of cryptography keys; and a processor operatively connected to the digitizing mechanism and adapted to receive the digital image and digital tag from the at

least one digitizing mechanism, to read the digital tag to identify the public key, and to encrypt the image with the identified public key (col.1 line 57 thru col.2 line 10).

As per **claim 19**, Moghadam further discloses wherein the physical information is included in a document, the document having a substrate that supports the physical information (col.3 lines 25-43).

As per **claim 20**, Moghadam further discloses wherein the physical tag is included on a label that is applied to the document, the label having a code that identifies the public key (col.3 lines 25-43).

As per **claim 21**, Moghadam further discloses wherein the at least one digitizing mechanism is a single mechanism that digitizes the physical tag during digitizing the physical information (col.3 lines 49-57).

As per **claim 22**, Moghadam further discloses wherein the physical tag carries an address of a recipient, and the processor is adapted to be connected to a network and to send the encrypted image to the address through the network (col.3 lines 25-43).

As per **claim 23**, Moghadam further discloses wherein the physical tag includes a barcode that identifies the public key (col.3 lines 25-43).

As per **claim 24**, Moghadam further discloses wherein the barcode is formed as a glyph code, and wherein the glyph code contains public-key identifying information in a machine-readable graphic (col.3 lines 25-43).

As per **claim 25**, Moghadam further discloses wherein the physical tag carries the public key (col.3 lines 25-43).

As per **claim 26**, Moghadam further discloses wherein the physical tag identifies a location on a digital storage medium, and wherein the location includes the public key (col.3 lines 13-23).

As per **claim 27**, Moghadam discloses a program storage device readable by a processor, tangibly embodying a program of instructions executable by the processor to perform method steps for encrypting an image produced from physical information, comprising digitizing spatially-distributed physical information to create a digital image of the information; digitizing a physical tag associated with the physical information to create a digital tag, the digital tag being readable to identify a public key; and reading the digital tag to identify the public key that is a public member of an asymmetric public-private pair of cryptography keys; reading the digital tag to identify the public key; and encrypting the digital image with the identified public key (col.1 line 57 thru col.2 line 10).

As per **claim 28**, Moghadam further discloses wherein the physical information is included in a document, the document having a substrate that supports the physical information (col.3 lines 25-43).

As per **claim 29**, Moghadam further discloses wherein the physical tag is included on a label that is applied to the document (col.3 lines 25-43).

As per **claim 30**, Moghadam further discloses wherein the physical tag includes a barcode that identifies the public key (col.3 lines 25-43).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tamara Teslovich whose telephone number is (571) 272-4241. The examiner can normally be reached on Mon-Fri 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Emmanuel Moise can be reached on (571) 272-3865. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

T. Teslovich
June 23, 2006

EMMANUEL L. MOISE
SUPERVISORY PATENT EXAMINER